

## PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P2031PC00	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/NO 2003/000053	International filing date (day/month/year) 12.02.2003	Priority date (day/month/year) 17.12.2002
International Patent Classification (IPC) or national classification and IPC A61J 17/00		
Applicant Böhmer, Bernhard Roald		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
  - a. ☒ (sent to the applicant and to the International Bureau) a total of 2 sheets, as follows:
    - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:
 

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

Date of submission of the demand 19.04.2004	Date of completion of this report 18.11.2004
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer Kristoffer Ogebjer/EK Telephone No. +46 8 782 25 00

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO 2003/000053

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
  - ☐ publication of the international application (under Rule 12.4)
  - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):

☐ the international application as originally filed/furnished

☒ the description:

pages 1 - 7 \_\_\_\_\_ as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☒ the claims:

pages \_\_\_\_\_ as originally filed/furnished

pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19

pages\* 1, 2 received by this Authority on 19.04.2004

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☒ the drawings:

pages 1 - 6 \_\_\_\_\_ as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (specify): \_\_\_\_\_

☐ any table(s) related to the sequence listing (specify): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (specify): \_\_\_\_\_

☐ any table(s) related to the sequence listing (specify): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO 2003/000053

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	<u>1-10</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-10</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-10</u>	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: GB, A, 2246555

D2: US, A, 5127903

D3: US, A, 6110193

The cited documents represent the general state of the art. The invention defined in claims 1-10 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed pacifier where the cartridge has a volume larger than the volume of the flow channel and is equipped with a cap at an insertion opening. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-10 is novel and is considered to involve an inventive step. The invention is industrially applicable.

19-04-2004

New Patent Claims

Attorney's ref.: P2031PC00

Appln. No.: PCT/NO03/00053

1.

5 A pacifier for receiving a single use cartridge (2) containing flavoured substances that are to be ingested orally, comprising a base part (3) having a cartridge chamber (3d), a nipple (4), at least one flow channel (5) between the cartridge chamber (3d) and the nipple, and at least one hole (8) that is in communication with the flow channel (5) in the nipple (4), the flow channel (5) being at least formed in the nipple (4), characterised in that the flow channel  
10 has a minimum diameter of less than 1 mm, that the cartridge has a volume substantially larger than the volume of the flow channel, and that the base part (3) is equipped with a cap (1) at an insertion opening (3c) to the cartridge chamber (3d) for the cartridge (2).

2.

15 A pacifier according to claim 1, characterised in that the flow channel (5) extends along almost the entire length of the nipple (4).

3.

20 A pacifier according to claim 1 or 2, characterised in that several parallel flow channels (5b) are formed in the nipple (4).

4.

25 A pacifier according to claim 1, 2 or 3, characterised in that a prechamber (5a) in the form of an enlargement of the flow channel (5) is formed at the hole/holes (8).

5.

A pacifier according to claim 1, 3 or 4, characterised in that the cartridge chamber (3d) extends some way into the nipple (4).

30 6.

A pacifier according to one of the preceding claims, characterised in that the cap (1) is a hinged cap (1).

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7.

A pacifier according to claim 6, characterised in that the cap (1) is equipped with an air inlet hole (9), preferably in connection with a hollow piercing means for piercing the cartridge (2).

5 8.

A cartridge for use in a pacifier according to claim 1, 2, 3 or 4, characterised in that it comprises a housing of a substantially rigid material and at the end thereof that is to be inserted into the pacifier is equipped with a pierceable sheet that is arranged to be pierced by suitable means in the pacifier in order to open communication between the interior of the  
10 cartridge and the channel (5).

9.

A cartridge according to claim 8, characterised in that it comprises a tear-off or pierceable sheet at an opening (2a) at the cartridge end opposite the insertion end.  
15

10.

A cartridge according to claim 8 or 9, characterised in that the cartridge (2) has a portion (2c) that is designed to extend some way into the nipple (4).  
20